## Alternative Fuels Data Center Tools and Resources Updates Webinar





Andrew Hudgins, National Renewable Energy Laboratory Alexis Schayowitz, ICF International Stacy Noblet, ICF International Trish Cozart, National Renewable Energy Laboratory **September 25, 2014** 

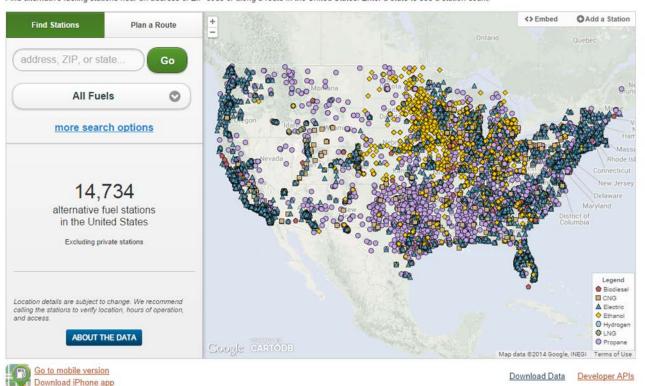
## Alternative Fueling Station Locator





#### **Alternative Fueling Station Locator**

Find alternative fueling stations near an address or ZIP code or along a route in the United States. Enter a state to see a station count.



## **Enhanced Features: EVSE**

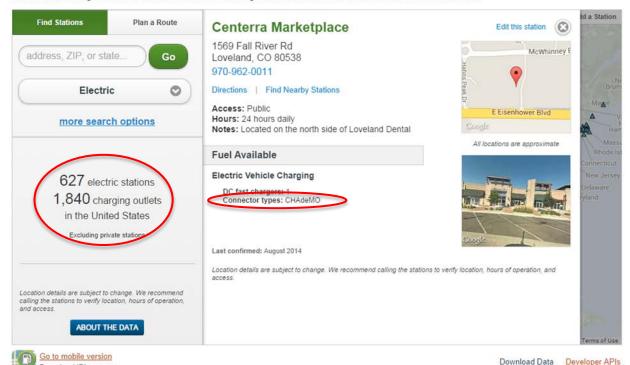




#### **Alternative Fueling Station Locator**

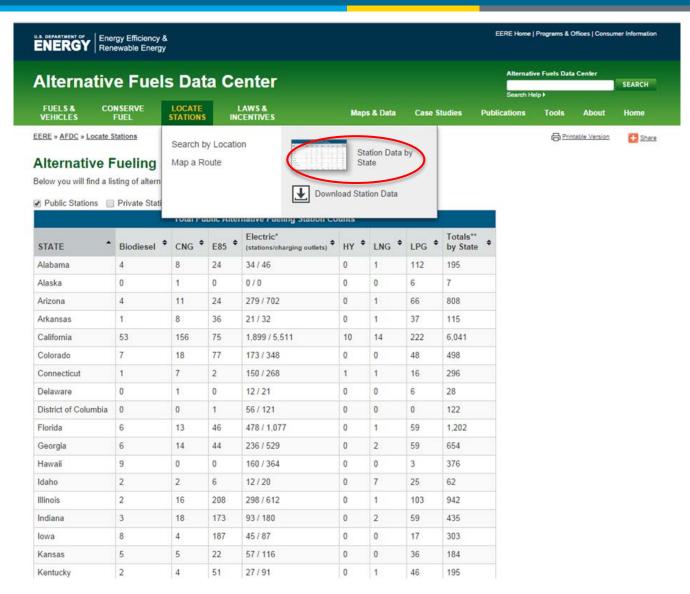
Download iPhone app

Find alternative fueling stations near an address or ZIP code or along a route in the United States. Enter a state to see a station count.



## Enhanced Features: Station Data by State

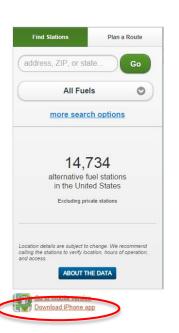




## New Features: iPhone App



View More by This Developer





#### **Alternative Fueling Station Locator**

By National Renewable Energy Laboratory

Open iTunes to buy and download apps.

#### Description

The Alternative Fueling Station Locator app helps you find fueling stations that offer electricity, natural gas, biodiesel, E85, propane, or hydrogen.

Alternative Fueling Station Locator Support

...More

#### What's New in Version 1.0.1

- Add connector type information to electric charging station results
- Rug five

#### View in iTunes

#### rice

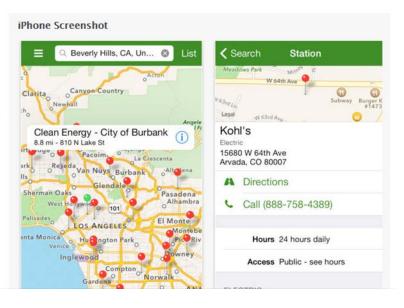
Category: Navigation Updated: Mar 23, 2014 Version: 1.0.1 Size: 4.6 MB Language: English Seller: National Renewable Energy Laboratory © National Renewable Energy Laboratory Rated 4+

Compatibility: Requires iOS 6.1 or later. Compatible with iPhone, iPad, and iPod touch. This app is optimized for iPhone 5.

#### **Customer Ratings**

Current Version: ★★★ 10 Ratings All Versions:

★★★★ 20 Ratings



## **New Features: Network Data**



 Nightly downloads of data from three electric vehicle supply equipment (EVSE) networks

ChargePoint Network

**Blink Network** 

**SemaCharge Network** 

More networks coming soon!



## **Faster Updates!**

# Updating a Station

- Search the Station Locator and select "Edit this station"
- Email <u>TechnicalResponse@icfi.com</u>

# Adding a New Station

- One station: Use the "Add a station" button in the Station Locator
- **Several stations:** Email <u>TechnicalResponse@icfi.com</u> to request a spreadsheet

# Removing a Station

Email <u>TechnicalResponse@icfi.com</u>

## Reminder: Current Fuel-Specific Fields



Fuel	Fields
Biodiesel	Blends available
CNG	<ul> <li>Fill type (fast, timed)</li> <li>Compression (psi)</li> <li>Vehicle accessibility (light-, medium-, or heavy-duty)</li> </ul>
EVSE	<ul> <li>Charging network (link to website)</li> <li>Type/level</li> <li>Number of ports</li> <li>Connector type</li> <li>Legacy chargers</li> </ul>
E85	Mid-level blend availability
Hydrogen	Status website
LNG	Vehicle accessibility
Propane	Services (primary or secondary)

## Coming Soon!



#### NEW STATION LOCATOR FEATURES

- Additional fuel-specific search options
- More search options for Data Download
- More fields on the Add and Edit a Station forms, and customized forms by fuel type
- More detailed EVSE maps
- Tool for accessing historical data

#### NEW APP FEATURES

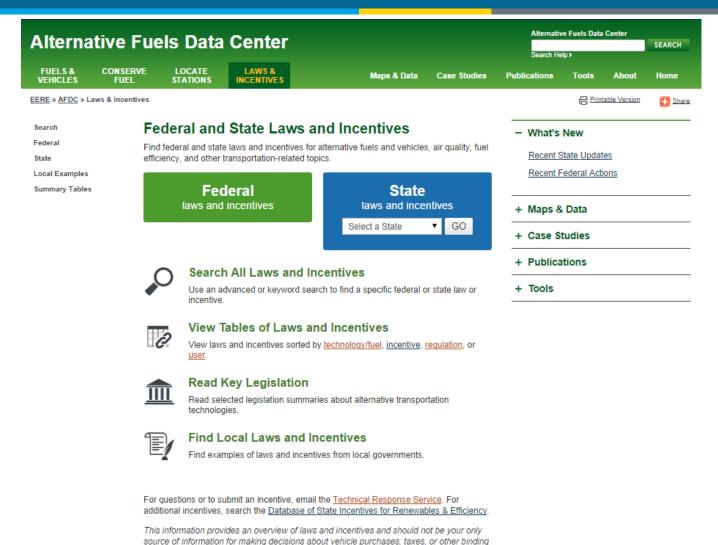
- Android interface
- Additional fuel-specific search options
- User-submitted feedback and new station updates
- More detailed EVSE maps
- EVSE "Help" information

#### NEW FIELDS

EVSE: Pricing information

### Federal and State Laws and Incentives





agreements. Please refer to the federal and state contacts included to verify these laws and

incentives are still applicable, and consult your tax advisor.

ABOUT THE DATA

**Download Data** 

Developer API

### New Features: What's New





#### Recent State Actions

Listed below are new and recently updated state laws, incentives, and regulations related to alternative fuels and advanced vehicles.



#### Alabama

- + Plug-in Electric Vehicle (PEV) and Charging Infrastructure Incentive Alabama Power added 9/12/2014
- + Propane Mower Rebate Alabama Propane Gas Association added 9/17/2014

#### Arizona

Alternative Fuel Vehicle (AFV) High Occupancy Vehicle (HOV) Lane Exemption - updated 7/29/2014

#### California

Zero Emission Vehicle (ZEV) Deployment Support - added 7/7/2014

#### Colorado

- + Alternative Fuel, Advanced Vehicle, and Idle Reduction Technology Tax Credit updated 7/15/2014
- Plug-in Electric Vehicle (PEV) and Electric Vehicle Supply Equipment (EVSE) Grants updated 7/15/2014
- Alternative Fuel Vehicles and Infrastructure Grant Program updated 7/16/2014
- + Biogas Production Sales Tax Exemption added 7/15/2014
- + Idle Reduction Weight Exemption added 7/21/2014

### New Features: What's New



#### Maryland Laws and Incentives

Listed below are incentives, laws, and regulations related to alternative fuels and advanced vehicles for Maryland. Your Clean Cities coordinator at <a href="State of Maryland Clean Cities">State of Maryland Clean Cities</a> can provide you with information about grants and other opportunities. You can also access coordinator and other agency contact information in the <a href="points of contact">points of contact</a> section.

Laws and Incentives

VIEW ALL

SEARCH

Information in this list is updated annually after Maryland's <u>legislative session</u> ends.

Last Updated April 2014

#### State Incentives

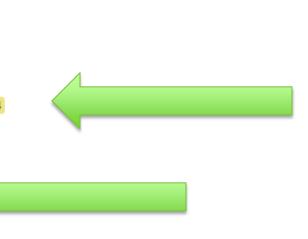
- Natural Gas Fueling Infrastructure Grant added 9/9/2014
- Electric Vehicle Supply Equipment (EVSE) Tax Credit
- Electric Vehicle Supply Equipment (EVSE) Rebate Program
- Plug-In Electric Vehicle (PEV) Tax Credit
- Plug-in Electric Vehicle (PEV) High Occupancy Vehicle (HOV) Lane Exemption
- · Alternative Fuel Vehicle (AFV) Voucher Program
- · Cellulosic Ethanol Research and Development Tax Credit
- · Biofuels Production Incentive
- · Idle Reduction Technology Grant Program

#### **Utility/Private Incentives**

- Plug-In Electric Vehicle (PEV) Charging Pilot Program Pepco
- Pluq-In Electric Vehicle (PEV) Pilot Rate BGE
- Propane Mower Incentive Mid Atlantic Propane Gas Association added 9/17/2014

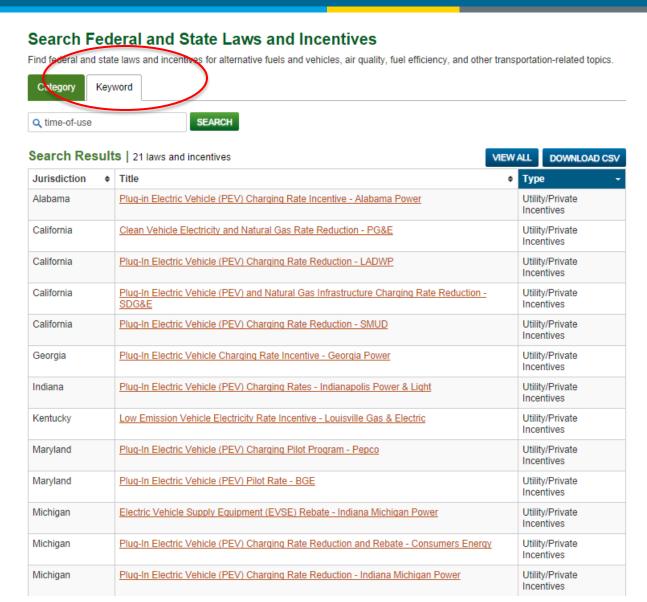
#### Laws and Regulations

- Electric Vehicle Supply Equipment (EVSE) Regulation Exemption
- Pluq-in Electric Vehicle (PEV) Information Disclosure
- <u>Plug-in Electric Vehicle (PEV) Infrastructure Promotion</u>
- Plug-In Electric Vehicle (PEV) Charging Incentive Development
- Zero Emission Vehicle (ZEV) Deployment Support updated 7/7/2014
- · Alternative Fuel Use Requirement
- · Idle Reduction Requirement
- · Low Emission Vehicle (LEV) Standards
- Aftermarket Alternative Fuel Vehicle (AFV) Conversion Requirements
- Low-Speed Vehicle Access to Roadways
- <u>Limited Speed Vehicle Access to Roadways</u>



## New Features: Keyword Search





## New Features: Accessing the Data



- Data Download <u>www.afdc.energy.gov/data\_download/</u>
  - Narrow by fuel/technology and other parameters or download all
  - See data field descriptions
- Developer API - <u>developer.nrel.gov/docs/transportation/transportation-incentives-laws-v1/</u>
  - Developers can set up a query and pull data automatically

## New Features: Case Studies & Bulletins



- Policy Case Studies
  - Voucher Incentive Programs: Lessons From the States
  - Utah's Clean Fuels and Vehicle Technology Loan Program
- Technology Bulletins
  - State Fees as Transportation Funding Alternatives
  - State Alternative Fuel and Advanced Vehicle Laws and Incentives: 2013 Year in Review

### **Contact Information**



## Clean Cities Technical Response Service

- <u>TechnicalResponse@icfi.com</u>
- **-** 800-254-6735

## Alexis Schayowitz

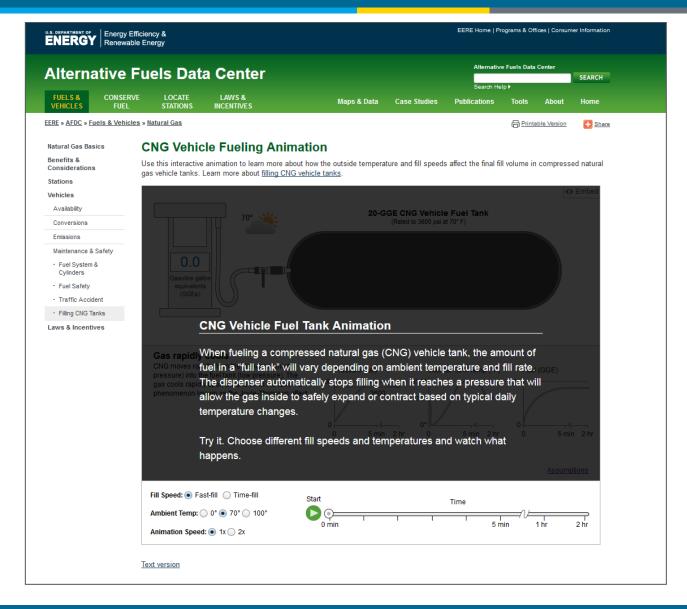
- alexis.schayowitz@icfi.com
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- **-** 703-934-3309

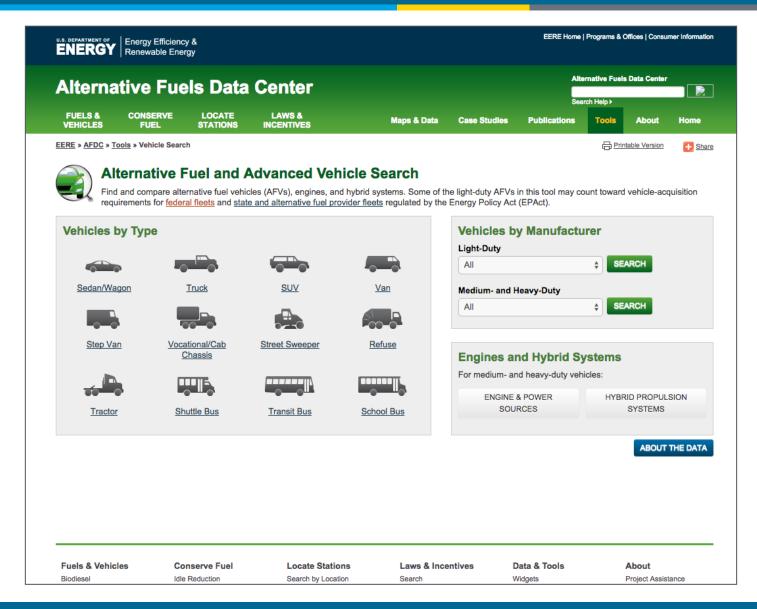
## **CNG Vehicle Fueling Animation Demo**





### New Vehicle Search Demo





## **Contact Information**



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